

ORT Package Documentation

Read one file of Oort radiosonde data. Each file contains data for all stations for one month. The number of stations changes from month to month.

This program is a modified version of the test-read code "read.f" (GFDL program reado) provided by NCAR.

Input variables:

character*(*) filename ! name of the file to be read
integer maxsta ! max number of stations (soundings) possible
integer nvarbs, nlevels ! number of variables and P-levels in each sounding

Output variables:

real lon(maxsta), lat(maxsta) ! longitudes / latitudes of the stations
real data(nvarbs, nlevels, maxsta) ! sounding data
integer nr ! actual number of stations with data

*** Documentation ***

Oort radiosonde data (NCAR Data Support Section dataset DS431.0)

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Datasets: Monthly Rawinsonde Station Covariances – 11 terms

Variables: Su Sv ST Sz Sq Srh Nu NT Nz Nq Nrh

The variables are u, v, T, z, q, and rh.

S = sum and N = number of observations.

NOTE: Nv is not needed since Nv=Nu.

NOTE: z is given as the geopotential height departure

(z - zREF) from NMC standard atmosphere (zREF) in gpm.

Time Period: May 1958 to December 1989

File Structure: Files named yyyy.mm.ttz where yyyy=four digit year, mm=two digit month (leading zeros) and tt=time (either 00,06,12 or 18 GMT); z indicates GMT.

Units: m/s m/s C m g/kg % num num num num num

Original Source: GFDL, Bram Oort (retired)

Bibliography:

Oort, A., 1983: Global Atmospheric Circulation Statistics, 1958–1973, NOAA Professional Paper 14, U.S. Department of Commerce [data set has been updated since this publication].

